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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Andrew Scharenberg
Serial No.: 09/869,486
Confirmation No: 4102
Int'l App. No.: PCT/US99/29996
Int'l App. Filed: December 20, 1999
Filed: June 29, 2001 (entered National Phase under 35 U.S.C. 371)
For: CHARACTERIZATION OF THE SOC/CRAC CALCIUM
CHANNEL PROTEIN FAMILY
Examiner: Olga N. Chernyshev
Art Unit: 1646

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 28th day of July, 2004.


Melissa L. Barlow Lyons

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office Action, but before the mailing date of either a final action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is enclosed.

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PART III: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

The Applicant would like to bring to the Examiner's attention the enclosed search report and the invitation to pay additional fees from a corresponding International or Foreign National Application (PCT/US99/29996).

The applicant would like to bring to the Examiner's attention the following other information: changes were made in the nomenclature as follows

Old nomenclature:	New nomenclature:
SOC2/CRAC1	TRPM7
SOC3/CRAC2	TRPM4
SOC4/CRAC3	TRPM8

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.


By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

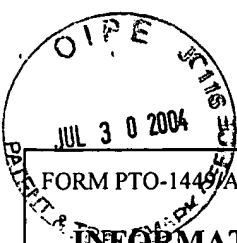
Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,
Andrew Scharenberg, *Applicant*

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Docket No. B0662.70026US00
Date: July 28, 2004
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FORM PTO-1449A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/869,486		ATTY. DOCKET NO.: B0662.70026US00	
				FILING DATE: June 29, 2001 (entered National Phase under 35 U.S.C. 371)		CONFIRMATION NO.: 4102	
				APPLICANT: Andrew Scharenberg			
				GROUP ART UNIT: 1646		EXAMINER: Olga N. Chernyshev	
Sheet	1	of	4				

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1	5,399,346		W. French Anderson et al.	03-21-1995
	A2	5,580,723		James A. Wells	12-03-1996
	A3	5,670,488		Richard J. Gregory et al.	09-23-1997
	A4	5,672,344		William N. Kelley et al.	09-30-1997
	A5	6,194,152	B1	Reiner Laus et al.	02-27-2001

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
	B1	WO	95/00654			01-05-1995	
	B2	WO	98/15657			04-16-1998	
	B3	WO	98/37093			08-27-1998	
	B4	WO	99/09166			02-25-1999	
	B5	WO	99/09199			02-25-1999	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
	C1	CATERINA, M.J. et al., The capsaicin receptor: a heat-activated ion channel in the pain pathway [see comments], Nature 389: 816-24, 1997.		
	C2	GARCIA, R.L. et al., Differential expression of mammalian TRP homologues across tissues and cell lines, Biochemical and Biophysical Research Communications, 239(1): 279-283, 1997.		
	C3	GenBank Accession No. AA261842 zs17h10.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:685507 5', mRNA sequence, Jan 31 1997.		
	C4	GenBank Accession No. AA313170 EST18457 Liver, subtracted (abundant clones) I Homo sapiens cDNA 5' end, mRNA sequence, Apr 19 1997.		
	C5	GenBank Accession No. AA370110 EST81669 Prostate gland I Homo sapiens cDNA 5' end, mRNA sequence, Apr 21 1997.		
	C6	GenBank Accession No. AA419407 zu99b09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:746105 3', mRNA sequence, May 12 1997.		
	C7	GenBank Accession No. AA419592 zu99b09.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:746105 5', mRNA sequence, May 12 1997.		



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C12	GenBank Accession No. AA654650 nt76b07.s1 NCI_CGAP_Pr3 Homo sapiens cDNA clone IMAGE:1204405, mRNA sequence, Nov 4 1997.		
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C14	GenBank Accession No. AA809355 ob70f05. s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1336737 3', mRNA Sequence, Feb 16, 1998.		
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C16	GenBank Accession No. AB001535 Homo sapiens mRNA, complete cds, 30-NOV-1998.		
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C18	GenBank Accession No. AF071787 Homo sapiens melastatin 1 (MLSN1) mRNA, complete cds, Nov 26, 1998.		
C19	GenBank Accession No. AI050262 ub28d10.r1 Soares 2NbMT Mus musculus cDNA clone IMAGE:1379059 5' mRNA sequence, July 10, 1998.		
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C21	GenBank Accession No. AI226731 uj15a05.y1 Sugano mouse kidney mkia Mus musculus cDNA clone IMAGE:1908080 5' similar to TR:Q93971 Q93971 HYPOTHETICAL PROTEIN T01H8.5 IN CHROMOSOME I ;, mRNA sequence, Oct 29 1998.		
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C24	GenBank Accession No. CAA92726 C. elegans GTL-1 protein (corresponding sequence C05C12.3) [Caenorhabditis elegans], Jan 14, 2003.		
C25	GenBank Accession No. CAB00861 C. elegans GTL-2 protein (corresponding sequence F54D1.5) [Caenorhabditis elegans], Jan 14, 2003.		
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C27	GenBank Accession No. D86107 Homo sapiens gene for HC21EXc132, exon, July 4, 1997.		



C28	GenBank Accession No. H18835 ym45d10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:51262 5', mRNA sequence, Jun 29 1995		
C29	GenBank Accession No. N31660 yx69b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:266959 5', mRNA sequence, Jan 10 1996		
C30	GenBank Accession No. R47363 Hf014-r Adult heart, Clontech Homo sapiens cDNA clone f014-r, mRNA sequence May 16 1995		
C31	GenBank Accession No. U16856 Dictyostelium discoideum myosin heavy chain kinase A (MHCK A) mRNA, complete cds, May 11, 1995.		
C32	GenBank Accession No. U93850 Homo sapiens elongation factor-2 kinase mRNA, complete cds, May 25, 1997.		
C33	GenBank Accession No. Z68333 Caenorhabditis elegans cosmid C05C12, complete sequence, Dec. 10, 1999.		
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	C49	SCHARENBERG, A.M. et al., Reconstitution of interactions between tyrosine kinases and the high affinity IgE receptor which are controlled by receptor clustering, EMBO J, 14(14):3385-3394, 1995.		
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	C52	WES, P.D. et al., TRPC1, a human homolog of a Drosophila store-operated channel. Proc. Natl. Acad Sci. USA, 92(21): 9652-9656, 1995.		
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	C55	ZHU, X. et al., Trp, A novel mammalian gene family essential for agonist-activated capacitative Ca ²⁺ entry, Cell, 85(5): 661-671, 1996.		
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EXAMINER	DATE CONSIDERED
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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